

U.S. Appl. Serial No. 09/826,791  
Attorney Docket No. PC10914A

### AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the Application.

#### Listing of Claims

Claim 1 (currently amended): An isolated and/or purified polynucleotide comprising:

- (a) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 2 or SEQ ID NO: 6;
  - (b) a polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1 or SEQ ID NO: 5;
  - (c) a polynucleotide comprising the cDNA of deposit NCIMB 41074;
- or

(d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of (a), (b), or (c), ~~and which encodes a leukotriene receptor that is activated by leukotriene C4 or leukotriene D4.~~

Claim 2 (canceled).

Claim 3 (original): A vector comprising the polynucleotide of claim 1.

Claim 4 (previously presented): A host cell transformed or transfected with the polynucleotide of claim 1, wherein said host cell expresses said polynucleotide under conditions sufficient for expression.

Claim 5 (currently amended): A process for producing a polypeptide encoded by the polynucleotide of claim 1 comprising culturing, under conditions sufficient for expression, a host cell transformed or transfected with an isolated and/or purified polynucleotide comprising:

- (a) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 2 or SEQ ID NO: 6;
- (b) a polynucleotide comprising a nucleotide sequence of SEQ ID NO:

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1 or SEQ ID NO: 5;

(c) a polynucleotide comprising the cDNA of deposit NCIMB 41074;

or

(d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of (a), (b), or (c), ~~and which encodes a leukotriene receptor that is activated by leukotriene C4 or leukotriene D4.~~

Claim 6 (currently amended): A membrane preparation of a cell transformed or transfected with

(a) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 2 or SEQ ID NO: 6;

(b) a polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1 or SEQ ID NO: 5;

(c) a polynucleotide comprising the cDNA of deposit NCIMB 41074;  
or

(d) a polynucleotide comprising a nucleotide sequence that has at least 95% identity to the polynucleotide of (a), (b), or (c), ~~and which encodes a leukotriene receptor that is activated by leukotriene C4 or leukotriene D4.~~

wherein the polypeptide encoded by said polynucleotide is contained in said membrane preparation.

Claims 7-21 (canceled).

Claim 22 (original): A microorganism as deposited under the accession number NCIMB 41074 at the National Collections of Industrial and Marine Bacteria Ltd.

Claim 23 (canceled).

Claim 24 (previously presented): An isolated and/or purified polynucleotide encoding a polypeptide comprising SEQ ID NO: 2 or SEQ ID NO: 6.

Claim 25 (previously presented): An isolated and/or purified polynucleotide comprising SEQ ID NO: 1 or SEQ ID NO: 5.

Claim 26 (previously presented): An isolated and/or purified polynucleotide comprising the cDNA of deposit NCIMB 41074.

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Claims 27-32 (canceled).

Claim 33 (previously presented): A vector comprising the polynucleotide of any one of claims 24-26.

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